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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Office of Secretary Of Defense **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE							
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 2: <i>Applied Research</i>				PE 0602250D8Z: <i>Systems 2020 Applied Research</i>							
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	-	-	4.381	-	4.381	1.951	1.957	-	-	Continuing	Continuing
P209: <i>Systems 2020 Applied Research</i>	-	-	4.381	-	4.381	1.951	1.957	-	-	Continuing	Continuing

Note

This is a new start in FY12. The Systems 2020 initiative will set the technical foundation for the Department's system needs for the next decade. This initiative funds OSD and Service research, development and pilot efforts in key technologies and tools for design and development of complex systems. Systems 2020 will enable the Department of Defense to design and build a new class of adaptable systems that allow the warfighter to operate with far greater speed and agility to address changing threats, environments and missions.

Systems 2020 will provide tools, technologies and methods to accelerate delivery of complex adaptive systems to meet the warfighters' changing needs. Systems 2020 applied research will develop and assess the feasibility of proposed solutions to the technology challenges involved in efficient design and development of complex adaptable systems.

A. Mission Description and Budget Item Justification

<u>B. Program Change Summary (\$ in Millions)</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012 Base</u>	<u>FY 2012 OCO</u>	<u>FY 2012 Total</u>
Previous President's Budget	-	-	-	-	-
Current President's Budget	-	-	4.381	-	4.381
Total Adjustments	-	-	4.381	-	4.381
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• New Start	-	-	4.500	-	4.500
• Defense Efficiency - Reports, Studies, Boards and Commissions	-	-	-0.113	-	-0.113
• Economic Assumptions	-	-	-0.006	-	-0.006

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APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 2: Applied Research	R-1 ITEM NOMENCLATURE PE 0602250D8Z: Systems 2020 Applied Research	
<p><u>Change Summary Explanation</u></p> <p>This is a new start in FY12. The Systems 2020 initiative will set the technical foundation for the Department’s system needs for the next decade. This initiative funds OSD and Service research, development and pilot efforts in key technologies and tools for design and development of complex systems.</p> <p>Defense Efficiency – Report, Studies, Boards and Commissions. As part of the Department of Defense reform agenda, reflects a reduction in the number and cost of reports, studies, DoD Boards and DoD Commissions below the aggregate level reported in the previous budget submission.</p>		

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Office of Secretary Of Defense								DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 2: Applied Research				R-1 ITEM NOMENCLATURE PE 0602250D8Z: Systems 2020 Applied Research				PROJECT P209: Systems 2020 Applied Research			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
P209: Systems 2020 Applied Research	-	-	4.381	-	4.381	1.951	1.957	-	-	Continuing	Continuing
A. Mission Description and Budget Item Justification											
<p>This is a new start in FY12. The Systems 2020 initiative will set the technical foundation for the Department's system needs for the next decade. This initiative funds OSD and Service research, development and pilot efforts in key technologies and tools for design and development of complex systems. Systems 2020 will enable the Department of Defense to design and build an entirely new class of adaptable systems that allow the warfighter to operate with far greater speed and agility to address changing threats, environments and missions.</p> <p>Systems 2020 will provide tools, technologies and methods to accelerate delivery of complex adaptive systems to meet the warfighters' changing needs. Systems 2020 applied research will develop and assess the feasibility of proposed solutions to the technology challenges involved in efficient design and development of complex adaptable systems.</p>											
B. Accomplishments/Planned Programs (\$ in Millions)								FY 2010	FY 2011	FY 2012	
Title: Systems 2020 Applied Research								-	-	4.381	
FY 2010 Accomplishments: N/A											
FY 2011 Plans: N/A											
FY 2012 Plans: -Develop Systems 2020 research agenda, coordinate with the Services' science and technology leadership and the Service's research, development and engineering centers. Coordinate research agenda with outside agencies such as the National Institute of Science and Technology, and the National Science Foundation. -Perform applied research to design, develop and deliver Systems 2020 tools, technology and methods, establishing the initial feasibility of accelerating the delivery of complex adaptable systems. -Perform applied research on systems analysis and design engineering tools to address a wide range of architectures and design drivers in the context of uncertain missions and threats. -Perform applied research into concept engineering and integrated modeling environments to enable rapid assessment of new material approaches and increase the productivity of engineering, design and production processes.											
Accomplishments/Planned Programs Subtotals								-	-	4.381	

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APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 2: <i>Applied Research</i>	R-1 ITEM NOMENCLATURE PE 0602250D8Z: <i>Systems 2020 Applied Research</i>	PROJECT P209: <i>Systems 2020 Applied Research</i>
<u>C. Other Program Funding Summary (\$ in Millions)</u> N/A		
<u>D. Acquisition Strategy</u> N/A		
<u>E. Performance Metrics</u> TBD		

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